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A BIBLIOGRAPHY OF ATOMIC LINE IDENTIFICATION LISTS III. AUGUST 1983 SUPPLEMENT

SAUL J. ADELMAN

Department of Physics, The Citadel, Charleston, South Carolina 29409

New references are given for the bibliography of atomic line identification lists by Adelman and Snijders and its first supplement.

Key words: atomic spectra - line identifications - bibliography

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1. INTRODUCTION

Adelman and Snijders (1974) published a bibliography of atomic line identification lists which supplemented the material contained in the *Ultraviolet and Revised Multiplet Tables* (Moore 1945, 1950, 1952, 1962) and in Kelly and Palumbo (1973) for the wavelength region λλ911-8250 and the first four spectra of all elements. Table I contains additional references published for the most part after the first supplement (Adelman 1978) was completed. Some references are provided to higher spectra of astrophysical interest. Each reference lists the wavelength region covered and the type of paper: A = analysis, CL = classified lines, EA = extension of analysis, NMT = new multiplet table, RA = revised analysis, TC = temperature classification, and W = line list. The user is advised to examine the references to ascertain their qualities.

Since 1978 several publications of related interest have appeared, in particular *Tables of Spectral Lines of Atoms and Ions* (Striganov and Odintsova 1982), which contains all the spectra of hydrogen through neon, the first through sixth spectra of sodium through chlorine, and the first ten spectra of argon, and *Atomic Emission Lines in the Near Ultraviolet: Hydrogen through Krypton* (Kelly 1979), which complements Kelly and Palumbo (1973). The wavelength tables in *Wavelengths and Transition Probabilities for Atoms and Atomic Ions* (Reader et al. 1980) contain the strongest lines of the first five spectra of all elements. The first table of this publication, which is lines arranged by spectra, is included in the most recent editions of the *CRC Handbook of Chemistry and Physics* (see e.g., Reader and Corliss 1982) and contains some lines which are in no other sources. Multiplet tables and atomic energy level compilations of O IV - O VIII are given by Moore (1979, 1980, 1983). Additional information on recent and current laboratory work in atomic spectroscopy is contained in Martin (1983).

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TABLE 1

Species	Reference	Type
Li I	Mannervik, S., and Cederquist, H. 1983, *Physica Scripta* **27**, 1.	[EA, 1680-1985]
Be II	Bentzen, S. M., Andersen, T., and Poulsen, O. 1982, *J. Phys. B* **15**, L71.	[CL, 736-3995]
Be III	Lofstand, B. 1973, *Physica Scripta* **8**, 57.	[EA, 81-6142]
	Andersen, T., Bentzen, S. M., and Poulsen, O. 1980, *Physica Scripta* **22**, 119.	[EA, 78-3914]
B I	Odintzova, G. A., and Striganov, A. R. 1979, *J. Chem. Ref. Data* **8**, 63.	[W, 993-36011]
B III	To, K. X., and Drouin, R. 1976, *Physica Scripta* **14**, 277.	[CL, 337-1311]
C I	Mazzoni, M., Tozzi, G. P., Cantu, A. M., and Pettini, M. 1981, *Physica* **111C**, 379.	[EA, 1107-1199]
C IV - C V	Jacques, C., Knystautas, E. J., Drouin, R., and Berry, H. G. 1980, *Canadian J. Phys.* **58**, 1093.	[CL, IV 254-2448, V 150-1861]
O III	Pettersson, S. -G. 1982, *Physica Scripta* **26**, 296.	[RA, 228-8359]
O IV	Moore, C. E. 1983, *NSRDS-NBS* **3**, Section 10 (Washington, D. C.: Government Printing Office).	[NMT, 141-7714]
O V	Moore, C. E. 1980, *NSRDS-NBS* **3**, Section 9 (Washington, D. C.: Government Printing Office).	[NMT, 114-7611]
O VI - O VIII	Moore, C. E. 1979, *NSRDS-NBS* **3**, Section 8 (Washington, D. C.: Government Printing Office).	[NMT, VI 21-5291, VII 15-1624, VIII 14-1933]
F I	Palenius, H. P., Huffman, R. E., Larrabee, J. C., and Tanaka, Y. 1978, *J. Opt. Soc. Am.* **68**, 1564.	[EA, 622-729 and 5166-9519]
Mg I	Baig, M. A., and Connerade, J. P. 1978, *Proc. Roy. Soc. London* **A364**, 353.	[EA, 766-1300]
	Okasaka, R., and Fukuda, K. 1982, *J. Phys. B* **15**, 347.	[EA, 2718-3125]
Al II	Kaufman, V., and Hagen, L. 1979, *J. Opt. Soc. Am.* **69**, 232.	[RA, 683-9332]
Si VI	Artru, M. -C., and Brillet, W. -U. L. 1977, *Physicia Scripta* **16**, 93.	[EA, 91-1345]
P I	Svendenius, N. 1980, *Physica Scripta* **22**, 240.	[RA, 1202-2688 and 4060-37345]
P II	Svendenius, N., Magnusson, C. E., and Zetterberg, P. O. 1983, *Physica Scripta* **27**, 339.	[EA, 709-11689]
S I	Eriksson, K. B. S. 1978, *Ap. J.* **222**, 398.	[EA, three lines 4589, 7725, and 10821]
	Alder, J. F., Bombelka, R. M., and Kirkbright, G. F. 1978, *J. Phys. B* **11**, 235.	[CL, 4625-4632]
	Kaufman, V. 1982, *Physica Scripta* **26**, 439.	[RA, 1157-4158]
S V	Joelsson, I., Zetterberg, P. O., and Magnusson, C. E. 1981, *Physica Scripta* **23**, 1087.	[RA, 187-6729]
S VI	Joelsson, I., Zetterberg, P. O., and Magnusson, C. E. 1979, *Physica Scripta* **20**, 145.	[EA, 152-5577]

Ca I	Borgstrom, S. A., and Rubbmark, J. R. 1977, *J. Phys. B* **10**, 3607.	[CL, 3659-4434]
	Brown, C. M., and Ginter, M. L. 1980, *J. Opt. Soc. Am.* **70**, 87.	[EA, 1339-1427]
	Connerade, J. P., Baig, M. A., Garton, W. R. S., and Newson, G. H. 1980, *Proc. Roy. Soc. London* **A371**, 295.	[EA, 1351-2722]
	Okasada, R., and Fukuda, K. 1982, *J. Phys. B* **15**, 357.	[EA, 2521-8448]
Sc II	Johansson, S., and Litzen, U. 1980, *Physica Scripta* **22**, 49.	[RA, 1160-10039]
Ti II	Huldt, S., Johansson, S., Litzen, U., and Wyart, J. -F. 1982, *Physica Scripta* **25**, 401.	[RA, 1229-10320]
V I	Davis, D. S., and Andrew, K. L. 1978, *J. Opt. Soc. Am.* **68**, 206.	[CL, 2495-8542]
V II	Iglesias, I. 1977, *Optica Pura y Aplicada* **10**, 267.	[EA, 2383-5503]
Cr I	Connerade, J. P., Baig, M. A., and Newson, G. H. 1981, *Proc. Roy. Soc. London* **A378**, 445.	[EA, 967-1132, 1494-1960 and 1840-4291]
Cr II	Johansson, S. 1982, *M.N.R.A.S.* **201**, 63P.	[EA, 1426-1446]
Cr IV	Ekberg, J. O., and Engstrom L. 1982, *Physica Scripta* **25**, 611.	[EA, 523-2424]
Mn I	Brown C. M., and Ginter, M. L. 1978, *J. Opt. Soc. Am.* **68**, 1541.	[EA, 1312-2005]
	Baig, M. A., Connerade, J. P., and Newson, G. H. 1979, *Proc. Roy. Soc. London* **A367**, 381.	[EA, 686-1623]
Mn III	Garcia-Riquelme, O. 1977, *Optica Pura y Aplicada* **10**, 275.	[EA, 699-7694]
Mn V	Podobedova, L. I., Ramonas, A. A., and Ryabtsev, A. N. 1978, *Opt. Spectrosc.* **45**, 237.	[EA, 1086-1915]
Mn VI	King, W. H. 1977, *J. Phys. B* **10**, 3381.	[RA, 801-1549]
Fe I	McCabe, M. K., and McAllister, H. C. 1982, *Ap. J. Suppl.* **48**, 437.	[CL, 1769-2022]
Fe II	Johansson, S. 1978, *Physica Scripta* **18**, 217.	[EA, 923-11126]
	Nussbaumer, H., Pettini, M., and Storey, P. J. 1981, *Astr. Ap.* **102**, 351.	[CL, 1063-1128]
Fe III	Varshni, Y. P. 1979, *Atomic Data and Nuclear Data Tables* **23**, 83.	[NMT, 3000-8237]
Fe IV	Ekberg, J. O., and Edlen, B. 1978, *Physica Scripta* **18**, 107.	[A, 446-789 and 1247-2028]
Co II	Iglesias, L. 1979, *Optica Pura y Aplicada* **12**, 63.	[EA, 1020-9489]
Cu I	Longmire, M. S., Brown, C. M., and Ginter, M. L. 1980, *J. Opt. Soc. Am.* **70**, 423.	[EA, 1579-2493]
Cu IV	Meinders, E., and Uijlings, P. 1980, *Physica* **100C**, 389.	[EA, 758-1275]
Ga I	Neijzen, J. H. M., and Donszelmann, A. 1982, *Physica* **114C**, 241.	[EA, 4244-4302]
Ga II	Denne, B., Litzen, U., and Curtis, L. J. 1979, *Phys. Lett.* **71A**, 35.	[CL, 1291-1803]
Se I	Lindgren, B., and Palenius, H. P. 1977, *Solar Physics* **53**, 347.	[EA, 1530-2549]
	Cantu, A. M., Mazzoni, M., and Joshi, Y. N. 1982, *J. Opt. Soc. Am.* **82**, 1363.	[CL, 1085-1607]
	Cantu, A. M., Mazzoni, M., and Joshi, Y. N. 1983, *Physica Scripta* **27**, 59.	[EA, 1273-2076]
Br I	Sarma, V. N., and Joshi, Y. N. 1983, *J. Phys. B* **16**, 1671.	[EA, 934-1634]
Kr I	Yoshino, K., and Tanaka, Y. 1979, *J. Opt. Soc. Am.* **69**, 159.	[EA, 845-1236]
Sr I	Esherick, P. 1977, *Phys. Rev. A* **15**, 1920.	[EA, 4320-4603]
	Connerade, J. P., Baig, M. A., Garton, W. R. S., and	[EA, 1423-2429]

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	Brown C. M., Longmire, M. S., and Ginter, M. L. 1983, *J. Opt. Soc. Am.* **73**, 985.	[CL, 1420-1891]
Y IV	Epstein, G. L., and Reader, J. 1982, *J. Opt. Soc. Am.* **72**, 476.	[EA, 211-4651]
Zr III	Khan, Z. A., Chaghtai, M. S. Z., and Rahimullah, K. 1981, *Physica Scripta* **23**, 29.	[RA, 640-2532]
Zr IV	Acquista, N., and Reader, J. 1980, *J. Opt. Soc. Am.* **70**, 789.	[RA, 445-2585]
	Rahimullah, K., Khan, Z. A., Chaghtai, M. S. Z., 1980, *Physica Scripta* **22**, 493.	[EA, 376-2531]
Nb IV	Meinders, E., Meijer, F. G., and Remijn, L. 1982, *Physica Scripta* **25**, 527.	[RA, 458-2597]
Ag I	Cantu, A. M., Jannitti, B., Mazzoni, M., Pettini, M., and Tondello, G. 1979, *Physica Scripta* **19**, 283.	[EA, 937-1775]
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Ag IV	van Kleef, Th. A. M., and Joshi, Y. N. 1983, *Canadian J. Phys.* **61**, 36.	[EA, ca. 400-2300]
Cd III	van Kleef, Th. A. M., Joshi, Y. N., and Uijlings, P. 1980, *Physica Scripta* **22**, 353.	[EA, 677-2102]
Cd IV	Joshi, Y. N., van Kleef, Th. A. M., and Mazzoni, M. 1980, *Canadian J. Phys.* **58**, 737.	[RA, 880-2076]
In I	Krylov, B. E., and Kozlov, M. G. 1979, *Opt. Spectrosc.* **47**, 579.	[CL, 1152-1385]
	Neijzen, J. H. M., and Donszelmann, A. 1982, *Physica* **114C**, 241.	[EA, 4493-4537]
In III	Bhatia, K. S. 1978, *J. Phys. B* **11**, 2421.	[EA, 494-6521]
In IV	van Kleef, Th. A. M., and Joshi, Y. N. 1981, *Physica Scripta* **24**, 557.	[EA, 889-1481]
Sb I	Mazzoni, M., and Joshi, Y. N. 1979, *Physica* **97C**, 107.	[EA, 1339-2423]
Te I	Makdisi, Y., and Bhatia, K. S. 1982, *J. Phys. B* **15**, 909.	[CL, 1994-6607]
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Xe II - Xe IV	Almandos, J. G. R., Gallardo, N., and Garavaglia, M. 1982, *Optica Pura y Aplicada* **15**, 1.	[CL, II 2053-4700, III 2568-6852, IV 2612-6871]
Xe III	Gallardo, M., Massone, C. A., Tagliaferri, A. A., Garavaglia, M., and Persson, W. 1979, *Physica Scripta* **19**, 538.	[EA, 2471-6723]
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	Hansen, J. E., Meijer, F. G., Outred, M., Persson, W., and Di Rocco, H. O. 1983, *Physica Scripta* **27**, 254.	[CL, 1016-1943]
Cs IV	Reader, J. 1983, *J. Opt. Soc. Am.* **73**, 349.	[CL, 707-1283]
Ba I	Rubbmark, J. R., Bergstrom, S. A., and Bockasten, K. 1977, *J. Phys. B* **10**, 421.	[CL, 4177-6130]
La IV	Epstein, G. L., and Reader, J. 1979, *J. Opt. Soc. Am.* **69**, 511.	[A, 318-4800]
Eu I	Kozlov, M. G., and Kotochigova, S. A. 1979, *0pt. Spectrosc.*	[W, 1298-2107]

	46, 10.	
Ho I	Childs, W. J., Cok, D. R., and Goodman, L. S. 1983, *J. Opt. Soc. Am.* **73**, 151.	[CL, 5900-6082]
Ho III	Cowley, C. R., and Crosswhite, H. M. 1978, *Pub. A.S.P.* **90**, 108.	[CL, 3764-4633]
Dy III	Aikman, G. C. L., Cowley, C. R., and Crosswhite, H. M. 1979, *Ap. J.* **232**, 812.	[W, 3362-4744]
Yb I	Kozlov, M. G., and Kotochigova, S. A., Krylov, B. E. 1977, *Opt. Spectrosc.* **43**, 368.	[W, 1068-1685]
Yb IV	Sugar, J., Kaufman, V., and Spector, N. 1978, *J. Res. N.B.S.* **83**, 233.	[EA, 761-2188]
Lu III - Hf IV	Sugar, J., and Kaufman, V., 1979, *J. Opt. Soc. Am.* **69**, 141.	[CL, Lu III 4217-4239, Hf IV 508-8036]
Au I	Jannitti, E., Cantu, A. M., Grisendi, T., Pettini, M., and Tozzi, G. P. 1979, *Physica Scripta* **20**, 156.	[EA, 969-2128]
Bi I - Bi II	Joshi, Y. N., and Srivastava, R. P. 1978, *Canadian J. Phys.* **56**, 1157.	[EA, I 1540-2204, II 1325-1903]
Th III	Wyart, J. -F., and Kaufmann, V. 1981, *Physica Scripta* **24**, 941.	[EA, 978-1516 and 1943-7400]
U III - U IV	Berg, J. O., Christensen, T. E., Kidd, P. W., Neil, G. R., and Conway, J. G. 1980, *J. Opt. Soc. Am.* **70**, 716.	[W, III 3563-4990, IV 3691-4718]
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